# RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/579,356
Source: IFWP
Date Processed by STIC: 5/25/06

# *ENTERED*

IFWP

**RAW SEQUENCE LISTING** DATE: 05/25/2006
PATENT APPLICATION: **US/10/579,356** TIME: 09:32:55

Input Set : **A:\D6547SEQ.txt**
Output Set: **N:\CRF4\05252006\J579356.raw**

```
      <110> APPLICANT: Gregor, Polly
            Concetti, Antonio
            Houghton, Alan
            Venanzi, Franco Maria
      <120> TITLE OF INVENTION: Compositions and Methods for Synergistic
            Induction of Antitumor Immunity
      <130> FILE REFERENCE: D6547
C--> <140> CURRENT APPLICATION NUMBER: US/10/579,356
      <141> CURRENT FILING DATE: 2006-05-12
      <150> PRIOR APPLICATION NUMBER: PCT/US2004/038022
      <151> PRIOR FILING DATE: 2004-11-15
      <160> NUMBER OF SEQ ID NOS: 13
      <210> SEQ ID NO: 1
      <211> LENGTH: 5220
      <212> TYPE: DNA
      <213> ORGANISM: artificial sequence
      <220> FEATURE:
      <223> OTHER INFORMATION: nucleotide sequence for mouse TEM8
      <400> SEQUENCE: 1
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tggccctatc ccggcagctc cacacagcag aacgccctgg gtccctgaaa  100
ctcgaaaccc gggctcagaa ccagcggaaa ccaaagcgaa atccttgaac  150
ttctctgaac aattgcttcc gggcgtttgc tgagagccgg gggacctgac  200
cggagcccag gccgcgtatg gcgcgcccct gatgtcacac ggacgccagc  250
gaggccagcg ctccggctgc agcatggacc gcgcggggcg cctgggtgcg  300
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cgggggccgc cgcgaggatg ggggaccagc ttgctacgga ggattcgacc  400
tctacttcat cctggacaag tcaggaagtg tgctgcacca ctggaatgaa  450
atctactact tcgtggagca gttggctcat agattcatca gcccacagct  500
aaggatgtcc ttcattgtct tctctactcg agggacaact ttaatgaaac  550
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gttctgccag gaggagacac ttacatgcac gaaggattcg agagggccag  650
tgagcagatt tactatgaga acagtcaagg atacaggacg gcgagcgtca  700
tcatcgcgtt gacggatggg gagctgcacg aggacctctt cttctactca  750
gagagggagg ctaaccgatc ccgagacctt ggtgcgattg tttactgcgt  800
tggcgtgaag gatttcaatg aaactcagtt ggctcggatt gcagacagta  850
aggaccacgt gtttcctgtg aacgacggct tccaggctct ccaaggcatt  900
atccactcaa ttttaaagaa atcctgcatc gaaattctgg cggctgaacc  950
atccaccatc tgcgcgggag agtcctttca agtggtcgta agaggaaatg 1000
gcttccgaca tgcccgcaat gtggacaggg tcctctgcag cttcaaaatc 1050
aatgactcag tcacgctcaa tgagaagccc tttgctgtgg aagacactta 1100
tttgctgtgc ccagcaccaa tcttgaaaga agttggcatg aaagctgcac 1150
tgcaggtcag catgaacgac ggcctgtcct tcatctccag ttctgtcatc 1200
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Input Set : **A:\D6547SEQ.txt**
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53 atcaccacca cacactgttc agacggctcc atcctggcga ttgctctgct 1250
54 ggtcctcttc ctgctgctgg ccctggcgct gctctggtgg ttctggcccc 1300
55 tctgctgcac agtgatcatc aaggaggtcc ctccaccccc tgttgaggag 1350
56 agtgaggaag aagacgatga tggtttgcca aagaagaaat ggcccacagt 1400
57 agatgcctct tattatggtg gacgcggtgt gggaggcatt aaaagaatgg 1450
58 aggtccgctg gggagaaaag ggctccacag aagaaggggc gaagttagaa 1500
59 aaggcaaaga atgcacgagt caagatgcca gagcaagaat atgagttccc 1550
60 agaaccccga aacctcaaca acaacatgcg ccggccttcc tcgcctcgga 1600
61 agtggtactc gcccatcaag ggaaaactcg atgccttgtg ggttctgctg 1650
62 agaaaaggat atgaccgagt gtctgtgatg aggccacagc caggagacac 1700
63 gggacgctgt atcaacttca ccagagtgaa gaacagtcag ccagccaagt 1750
64 atcccctgaa caacacctac caccccagct ccccacctcc cgctcctatc 1800
65 tacacacccc caccccctgc tccccactgc cctcccccag cccccagtgc 1850
66 ccccactcct cccattcctt ccccaccatc cactctcccc cctcctcctc 1900
67 aggccccacc ccctaacagg gcacctcccc cctcccgacc tcctccaagg 1950
68 ccttctgtct agaacccaaa gtccgagctc tgggctgcct gagcaactcc 2000
69 agcaggaggc ttctctgctg aaagaaagat ctgcccagcc tatgtggtga 2050
70 gtggcggctg atgtttgcac gatttaaaag caagtcgtga tgggcagaac 2100
71 aaaatgggca ttttgaactg cctgaagaca gacaatgaga caataacagt 2150
72 cacattatag cctgtgaccc ctcacctcta gaggaaggtt cccgagatgg 2200
73 ccacattgcc acagtgctct cagccagatt atgtcccatg aagaccagga 2250
74 agaaagtgac ttccaagaat ggaatgcagc attggataag aaacacctgg 2300
75 ctgagattct gacctcactg atttgactct tgattcttgg actgggagcc 2350
76 aggccatctc cacccctggt accacccagc aactctgaaa atgtgcagtg 2400
77 tccctagtat gcatcgaata ggtatccaac tgggatctgc aggttgcctt 2450
78 ataaagagca tatgctctat tctctttccc gaacttcctg gtttcccagt 2500
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80 gtgctcagca ctgatggaga agcgttgatg ggagtgtcca gctcttacat 2600
81 ctagaaatgg ctggcttcag caggcacagt tcctaaacca acaagccttg 2650
82 tcattgtcaa aggcaaccta ctaatgattc accttaaaca tcaaggttga 2700
83 ctgtggcata ggtcagagct gatcacacag aaccttcccc atgaaatcgc 2750
84 aaggttcctc atcttcaaat acccaggacc ccagagattt ctaaatccag 2800
85 ctaagagaca gtagtcctga cttggcaaga aaaccattcc cagttgtttt 2850
86 actctgaaac aggccgttgt atgtatggta tatctctcct tggcctttca 2900
87 acctgctcac aagtattacc agttatgaag caaggagaaa tacatccagt 2950
88 gtgtaataga aaagctctgc ccacaatccc catgtcactc ctctacatta 3000
89 ttctgaagct gcttggtcag tgagcccttt aacctcatgt agactctgga 3050
90 cactgtcacc caatcatgaa aacagaggtc attgtcaaag gcagtgtata 3100
91 gcctgtacaa aaatgatgct tccttcctca gtttccacag gccccaaaat 3150
92 tcctgtctta ggctcctaaa cctctaaact ttttcctgga acaaaagata 3200
93 taaaacgggc ataagttttt atgttttggg ctgtgatctc caaagatcct 3250
94 tcaagaactc aagttagcct cattcttcca gcttgtttag aacagaggca 3300
95 tccaggtgtc atgcactcca tagacaccaa tccttgttcc caaggcagac 3350
96 attattaatc aatctcagca ctagttctca atttaatcca attatatttt 3400
97 tccacagtac ttcacatctc ttatgacctg ttggtcatca gttagaattg 3450
98 agagagataa acactgtttg taatccctac cttagaaaga aaagcagagg 3500
99 agaatggggg aaccaccagc ataaaagtta ttatctgggg aaaatcgacc 3550
100 tgaaagaacg cccaagtcca agacctatgg tgctgacacc aaagtaacac 3600
101 tttcccaagt gtaccccaga ccccactctt ctccctgtgg ccaccactcc 3650

**RAW SEQUENCE LISTING** DATE: 05/25/2006
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Input Set : **A:\D6547SEQ.txt**
Output Set: **N:\CRF4\05252006\J579356.raw**

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102 ctgcttttca ggagttgtga aaaagatctc cttcaccctt actgtgcccc 3700
103 catattagaa caaggcttgt ttagtgtagt ccttgttaaa caggtgccag 3750
104 aatgtctcag ccacctgaga tgacattgct gggccccaga aaaccattcc 3800
105 aaggagaatg ggctccccag gctcagagca tgcaactatg agcccatggc 3850
106 aactgttttg actgctggca gtacaaaacg ggccacccca cattacagct 3900
107 gcaggatttg tgcagccata agaaagtatg aaccaagatg ctggtgttgc 3950
108 tgttcaacaa gcatgggctt cggggaaggc agcagactcc gagagcaggc 4000
109 cttgtgcagt gtcccaaggg gctgtggtga agtgtctgag gaaaaatgaa 4050
110 tgctgataca tggtgattct gagaagaatt tgcaaggttt gaccttagaa 4100
111 tttatggaat gtcttccctg gtcattcaga attatggcta gaagtttcta 4150
112 gaaaccgtca aggttaatac ctttcagagt aggtgattac aggcaggaag 4200
113 agctttgatg tggtttacaa agcccatcag ttctgtgtca ttccctgtaa 4250
114 gcaacaggag atggtggttg tgattagcaa actgcatgtg ttatttgttt 4300
115 gactccttgt tattgtcctt acggaggatt ttttttatat aagccaaatt 4350
116 ttgttgtata tattcatatt ccacgtgaca gatggaagca cgtcctatca 4400
117 gtgtgaataa aaagaacagt tgtagtaaat tattaaagcc agtgatttca 4450
118 tggcaggtta ccctaccaag ctgtgcttgt tgatctccca tgaccatact 4500
119 gcttttacaa tgtacaaata gttcctaggt gacgagaccc tcctttacat 4550
120 aatgccgatg acagccttgc tgggaactgc ggtccttctg ctgtgacagc 4600
121 cagctcgaaa acaggtcctg cctggagctt gccacacact ttagggagac 4650
122 ataagagctg tctttcccca gcgtcaggga caaagctacc ataaagaagt 4700
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125 gaaaatccat caaggaataa ttgtgagata atgaccgaca gttcaggcgc 4850
126 aaagggaatt catgctgtgt aaagtgggtg gaattcgttt gcaagctatg 4900
127 caaagcctga tcttactcac caggaggatg gaaagggttt ttttagttat 4950
128 ctgagctcag ctgagttatc acgcttggag aaccgattta aaggaattag 5000
129 aatatgattt ctgaatacac ataacattaa actcttctct ttttctatgg 5050
130 taatttagtt atggacgttc agcgtctctg agttattgtt ataaaagact 5100
131 tgtcatcacc gcactgtgct gtaggagact gggctgaacc tgtacaatgg 5150
132 tataccctgg aagttgcttt tttaaaaaaa aataataata aacacctaaa 5200
133 atcaaaaaaa aaaaaaaaaa                                  5220
136 <210> SEQ ID NO: 2
137 <211> LENGTH: 561
138 <212> TYPE: PRT
139 <213> ORGANISM: artificial sequence
141 <220> FEATURE:
142 <223> OTHER INFORMATION: amino acid sequence for mouse TEM8
144 <400> SEQUENCE: 2
145 Met Asp Arg Ala Gly Arg Leu Gly Ala Gly Leu Arg Gly Leu Cys
146                  5                  10                  15
147 Val Ala Ala Leu Val Leu Val Cys Ala Gly His Gly Gly Arg Arg
148                  20                  25                  30
149 Glu Asp Gly Gly Pro Ala Cys Tyr Gly Gly Phe Asp Leu Tyr Phe
150                  35                  40                  45
151 Ile Leu Asp Lys Ser Gly Ser Val Leu His His Trp Asn Glu Ile
152                  50                  55                  60
153 Tyr Tyr Phe Val Glu Gln Leu Ala His Arg Phe Ile Ser Pro Gln
154                  65                  70                  75
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Input Set : **A:\D6547SEQ.txt**
Output Set: **N:\CRF4\05252006\J579356.raw**

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155 Leu Arg Met Ser Phe Ile Val Phe Ser Thr Arg Gly Thr Thr Leu
156                  80                  85                  90
157 Met Lys Leu Thr Glu Asp Arg Glu Gln Ile Arg Gln Gly Leu Glu
158                  95                 100                 105
159 Glu Leu Gln Lys Val Leu Pro Gly Gly Asp Thr Tyr Met His Glu
160                 110                 115                 120
161 Gly Phe Glu Arg Ala Ser Glu Gln Ile Tyr Tyr Glu Asn Ser Gln
162                 125                 130                 135
163 Gly Tyr Arg Thr Ala Ser Val Ile Ile Ala Leu Thr Asp Gly Glu
164                 140                 145                 150
166 Leu His Glu Asp Leu Phe Phe Tyr Ser Glu Arg Glu Ala Asn Arg
167                 155                 160                 165
168 Ser Arg Asp Leu Gly Ala Ile Val Tyr Cys Val Gly Val Lys Asp
169                 170                 175                 180
170 Phe Asn Glu Thr Gln Leu Ala Arg Ile Ala Asp Ser Lys Asp His
171                 185                 190                 195
172 Val Phe Pro Val Asn Asp Gly Phe Gln Ala Leu Gln Gly Ile Ile
173                 200                 205                 210
174 His Ser Ile Leu Lys Lys Ser Cys Ile Glu Ile Leu Ala Ala Glu
175                 215                 220                 225
176 Pro Ser Thr Ile Cys Ala Gly Glu Ser Phe Gln Val Val Val Arg
177                 230                 235                 240
178 Gly Asn Gly Phe Arg His Ala Arg Asn Val Asp Arg Val Leu Cys
179                 245                 250                 255
180 Ser Phe Lys Ile Asn Asp Ser Val Thr Leu Asn Glu Lys Pro Phe
181                 260                 265                 270
182 Ala Val Glu Asp Thr Tyr Leu Leu Cys Pro Ala Pro Ile Leu Lys
183                 275                 280                 285
184 Glu Val Gly Met Lys Ala Ala Leu Gln Val Ser Met Asn Asp Gly
185                 290                 295                 300
186 Leu Ser Phe Ile Ser Ser Ser Val Ile Ile Thr Thr Thr His Cys
187                 305                 310                 315
188 Ser Asp Gly Ser Ile Leu Ala Ile Ala Leu Leu Val Leu Phe Leu
189                 320                 325                 330
190 Leu Leu Ala Leu Ala Leu Leu Trp Trp Phe Trp Pro Leu Cys Cys
191                 335                 340                 345
192 Thr Val Ile Ile Lys Glu Val Pro Pro Pro Pro Val Glu Glu Ser
193                 350                 355                 360
194 Glu Glu Glu Asp Asp Asp Gly Leu Pro Lys Lys Lys Trp Pro Thr
195                 365                 370                 375
196 Val Asp Ala Ser Tyr Tyr Gly Gly Arg Gly Val Gly Gly Ile Lys
197                 380                 385                 390
198 Arg Met Glu Val Arg Trp Gly Glu Lys Gly Ser Thr Glu Glu Gly
199                 395                 400                 405
200 Ala Lys Leu Glu Lys Ala Lys Asn Ala Arg Val Lys Met Pro Glu
201                 410                 415                 420
202 Gln Glu Tyr Glu Phe Pro Glu Pro Arg Asn Leu Asn Asn Asn Met
203                 425                 430                 435
204 Arg Arg Pro Ser Ser Pro Arg Lys Trp Tyr Ser Pro Ile Lys Gly
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```
205                 440                 445                 450
206 Lys Leu Asp Ala Leu Trp Val Leu Leu Arg Lys Gly Tyr Asp Arg
207                 455                 460                 465
208 Val Ser Val Met Arg Pro Gln Pro Gly Asp Thr Arg Cys Ile Asn
209                 470                 475                 480
210 Phe Thr Arg Val Lys Asn Ser Gln Pro Ala Lys Tyr Pro Leu Asn
211                 485                 490                 495
212 Asn Thr Tyr His Pro Ser Ser Pro Pro Pro Ala Pro Ile Tyr Thr
213                 500                 505                 510
214 Pro Pro Pro Pro Ala Pro His Cys Pro Pro Pro Ala Pro Ser Ala
215                 515                 520                 525
216 Pro Thr Pro Pro Ile Pro Ser Pro Pro Ser Thr Leu Pro Pro Pro
217                 530                 535                 540
218 Pro Gln Ala Pro Pro Pro Asn Arg Ala Pro Pro Pro Ser Arg Pro
219                 545                 550                 555
220 Pro Pro Arg Pro Ser Val
221                 560
224 <210> SEQ ID NO: 3
225 <211> LENGTH: 252
226 <212> TYPE: PRT
227 <213> ORGANISM: artificial sequence
229 <220> FEATURE:
230 <223> OTHER INFORMATION: amino acids 27-279 for mouse TEM8
232 <400> SEQUENCE: 3
233 Gly Arg Arg Glu Asp Gly Gly Pro Ala Cys Tyr Gly Gly Phe Asp
234                  5                  10                  15
235 Leu Tyr Phe Ile Leu Asp Lys Ser Gly Ser Val Leu His His Trp
236                 20                  25                  30
237 Asn Glu Ile Tyr Tyr Phe Val Glu Gln Leu Ala His Arg Phe Ile
238                 35                  40                  45
239 Ser Pro Gln Leu Arg Met Ser Phe Ile Val Phe Ser Thr Arg Gly
240                 50                  55                  60
241 Thr Thr Leu Met Lys Leu Thr Glu Asp Arg Glu Gln Ile Arg Gln
242                 65                  70                  75
243 Gly Leu Glu Glu Leu Gln Lys Val Leu Pro Gly Gly Asp Thr Tyr
244                 80                  85                  90
245 Met His Glu Gly Phe Glu Arg Ala Ser Glu Gln Ile Tyr Tyr Glu
246                 95                 100                 105
247 Asn Ser Gln Gly Tyr Arg Thr Ala Ser Val Ile Ile Ala Leu Thr
248                110                 115                 120
250 Asp Gly Glu Leu His Glu Asp Leu Phe Phe Tyr Ser Glu Arg Glu
251                125                 130                 135
252 Ala Asn Arg Ser Arg Asp Leu Gly Ala Ile Val Tyr Cys Val Gly
253                140                 145                 150
254 Val Lys Asp Phe Asn Glu Thr Gln Leu Ala Arg Ile Ala Asp Ser
255                155                 160                 165
256 Lys Asp His Val Phe Pro Val Asn Asp Gly Phe Gln Ala Leu Gln
257                170                 175                 180
258 Gly Ile Ile His Ser Ile Leu Lys Lys Ser Cys Ile Glu Ile Leu
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**VERIFICATION SUMMARY** DATE: 05/25/2006
PATENT APPLICATION: **US/10/579,356** TIME: 09:32:56

Input Set : **A:\D6547SEQ.txt**
Output Set: **N:\CRF4\05252006\J579356.raw**

L:12 M:270 C: Current Application Number differs, Missing <140> CURRENT APPLICATION NUMBER: is Added.